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GENERAL TECHNICAL DETAILS

<table>
<thead>
<tr>
<th>MEASUREMENTS</th>
<th>Without retractable tier</th>
<th>With retractable tier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total floor area</td>
<td>4.500sqm</td>
<td>3.500spm</td>
</tr>
<tr>
<td>Length</td>
<td>97m</td>
<td>90m</td>
</tr>
<tr>
<td>Min. Width south end</td>
<td>37m</td>
<td>32m</td>
</tr>
<tr>
<td>Min. With north end</td>
<td>33m</td>
<td>32m</td>
</tr>
<tr>
<td>Maximum width</td>
<td>52m</td>
<td>40m</td>
</tr>
<tr>
<td>Usable height</td>
<td>20m (south area)</td>
<td></td>
</tr>
<tr>
<td>Max Catwalk height</td>
<td>26,85m</td>
<td></td>
</tr>
<tr>
<td>Min Catwalk height</td>
<td>22m</td>
<td></td>
</tr>
<tr>
<td>Max. Capacity</td>
<td>17.960 pax</td>
<td></td>
</tr>
</tbody>
</table>

**GENERAL POWER SUPPLY**

Two independently switchable 25 KV power lines. A 330-kVA generator for emergency and evacuation lighting.

**POWER SUPPLY FOR EVENTS**

STAGE AREA (South):

Three-phase line, 1000 A, 400/230 V, with neutral and F2/D2 socket at a single point.

Three-phase line, 1000 A, 400/230 V, with neutral, comprising:

- Three-phase line, 400 A, 400/230 V, with neutral, on catwalk.
- Three-phase line, 600 A, 400/230 V, with neutral, distributed through east, west and central floor areas.
GENERAL TECHNICAL DETAILS

- **LOADS**
  - **ON FLOOR LEVEL:**
    Permanent, uniformly distributed loads may not exceed 1000 kg/m².
    Occasional loads may not exceed 5 kg/cm².
    For lorries, loads may not exceed 10 t per axle.

- **ROOF GIRDERs:**
  108 hanging points distributed throughout the roof girders, with colored rings indicating the maximum loads which can be suspended from them. Each hanging point has a built-in scale so that the loads suspended from the roof can be monitored in real time using special software.
  There are 89 points with a maximum load of 500 kg and 19 points with a maximum load of 1000 kg.

- **CATWALK:**
  The catwalk structure has 175 mobile load points, each of which can support a maximum load of 300 kg. These points are distributed throughout the catwalk, with a greater concentration at the south end where the stage is normally located.
EQUIPMENT: SOUND

- **SOUND**

  The hall’s sound system is designed to ensure that sound is relayed uniformly to all the tiers and the main floor area.

  It is also possible to configure the sound system for different event capacities, blocking the speakers in unused areas to improve the audio quality.

- **SOUND EQUIPMENT RIDER**

  - 10 arrays of 5 JBL VRX 932 self-amplified speakers to deliver sound to the tiers.
  - 8 arrays of 3 JBL VRX 932 self-amplified speakers to deliver sound to the entire floor.
  - 8 audio and video connection points distributed around the central floor.
  - BOSCH PRAESIDEO public address system covering all interior areas of the Palau, with three operating desks for issuing courtesy and/or emergency messages (switchboard, central control and sound cabin).
  - Address system control cabin with Soundcraft 8 24-8-2-1 analogue desk.
  - CD, MP3 and MD player.
  - Management of all audio output from video controls.
  - Set of 4 SHURE UR4D wireless microphones.
  - 8 SHURE SM 87 hand-held microphones.
  - SHURE MX412 D/N microphones for commentators.
  - CLEAR-COM crew communication system.
EQUIPMENT: LIGHTING

The hall’s lighting system is designed to ensure that all the galleries and the main floor area are uniformly lit.

It is also possible to configure the lighting system for different event capacities, blocking the projectors in unused areas to improve the audio and lighting quality.

- **Lighting equipment rider**
  - 50% of the luminaires have instant restrike
  - There are two lighting areas, each with three lighting levels:

  a) A (for tennis, basketball, handball, volleyball, gymnastics and similar events):
     - LEVEL 1: Average horizontal illumination: 531 lux.
     - LEVEL 2: Average horizontal illumination: 2018 lux.
     - LEVEL 3: Average horizontal illumination: 4036 lux.

  b) AREA T (for athletics, supercross and similar events):
     - LEVEL 1: Average horizontal illumination: 577 lux.
     - LEVEL 2: Average horizontal illumination: 2083 lux.
     - LEVEL 3: Average horizontal illumination: 4166 lux.

*Levels refer to surface luminance.*
The arena also features a Mondo video block suspended from the catwalk above the center of the floor. Features:

- Irregular octagonal shape.
- Suspended from four motorized anchors so it can be set to different heights.
- Maximum suspension height: 22.2 m above the floor.
- Minimum height: floor level.
- The 8 screens are set at a fixed 15° angle.
- The block comprises four 16 x 9 landscape screens (6.08 m wide by 3.36 m high) which are mainly used as electronic scoreboards. Their resolution is 608 x 336 pixels.
- The 4 portrait screens (1.92 m wide by 3.45 m high) are mainly used for advertising. Their resolution is 160 x 288 pixels.
- The bottom of the block is covered with a stretched cloth.
- The screen brightness is 2,000 nits.
EQUIPMENT: VIDEO WALL

The hall has a 10-metre-high ODECO wall screen to the south end of the floor. Features:

- Width: 10.38 m.
- Height: 6.54 m.
- LED technology: 5 LEDs per pixel.
- Real pixel size: 20 mm.
- Real resolution: 512 x 350 pixels.
- Virtual resolution: 1024 x 640 pixels.
- Supports SDI and HD-SDI.
- System integrated with the Mondo video controls.
EQUIPMENT: CONTROL ROOM

- **CONTROL ROOM**

The Mondo central screen block and the ODECO wall screen are controlled simultaneously from the control room. Different video programs can be sent to each screen.

The four secondary screens in the block can display static or dynamic publicity materials.

The four main screens of the central block and the wall screen support the following options:

- Sports scoreboard created using a program supplied by Mondo with data fed from sports consoles.
- HD-SDI, SD-SDI, DVI and RGB video formats and analogue video.
- PowerPoint presentations.
- Video sources: TDT, DVD, DVCAM, BETACAM.
- Linked advertising spot launch system.
- Connection to the Palau’s TV network.
- Video signals from mobile TV units via three connection points on the floor and the usual UMTV area

- **ADITIONAL TECHNICAL FEATURES**

- Roland V-1600HD mixing desk.
- JVC SR-HD2500EU DVD and Blue-ray deck.
- DVCAM DSR-1800P video player.
- BETACAM J3 video player.
- Standard DVD player
EQUIPMENT: BLACK OUT

The blackout system ensures the main floor is fully blacked out and light entering from outside can be controlled if required. The lighting goes up fast, is adjustable, allows different blackout levels and is configured to the architectural layout of the building.

The system complies with fire regulations and applicable legal requirements.

- CURTAIN AND GLASS WALLS

The roll-up curtain walls are made of special blackout fabric that complies with fire regulations. All blackout features are manually operated using cranks or chains.

The doors and top and bottom sections of the curtain walls are strengthened with permanent blackout vinyl. The roll-up sections are protected by their housing when not in use.

- CIRCULAR SKYLIGHTS

This manual system allows the circular skylights to be covered using a flexible fabric which is easy to fix and remove.

- RING AND CORNER SKYLIGHTS

This manual system allows the ring and corner skylights to be covered using garden-type fabrics measuring from 6.3 to 12.25 m².
EQUIPMENT: CURTAINS

The curtain system can be used to support the different lighting and blackout options and to control spectator capacity in the arena.

**VOMITORIUM, CORRIDOR AND BLOCKING CURTAINS**

Simple modular curtains in short sections for easy assembly and removal on fixed steel plates.

The system allows curtains to be drawn aside when spectators enter and leave.

**DIVIDING CURTAINS**

A system of 5 flame-retardant black curtains suspended from the roof structure allowing the spectator capacity of the arena to be reduced.

- Two 12-m front-facing curtains.
- One 22.5-m front-facing curtain.
- Two 20-m side curtains over the tiers, which can be turned up to 45 degrees to adapt and divide the hall, whether the north or south end is used.
EQUIPMENT: COURTAINS

- **BACKGROUND COURTAIN**
  Located at the south wall

- **DRAPES TO COVER UPPER LEVEL**
  System to cover the sectors of the upper ring (level 300)
ARENA FACILITIES

- **BOX OFFICES**
  Palau Sant Jordi has a number of box offices located at the arena entrances. The box office service can be contracted by prior agreement on acceptance of the price quoted.

- **CLOAKROOM**
  The cloakroom area is located on the third floor of the building. It can be easily reached from the main entrance hall.

- **FIRST AID ROOM**
  Infirmary located in the western part of the backstage and another on the second floor on the west side.

- **DOORS ACCESS**
  - The venue has two floor-level entrances (6 m wide by 4.06 m high) at its south/east and south/west ends.
  - There are public entrances from the Esplanade to Level 4 of the venue, with the option to set out different routes for different segments of the audience.
  - A separate door with its own access route to Level 1 for VIPs, with two parking areas.
ARENA FACILITIES

- **DRESSING ROOMS**
  - Four 20.25 m² dressing rooms (A, B, C, D) and two 7.7-m² auxiliary rooms (E and F) in the main hall.
  - One 125 m² dressing rooms on the first floor.
  - Two 26 m² dressing rooms on the first floor.
  - Two 24 m² dressing rooms on the first floor

- **ADITIONAL SPACES**
  Palau Sant Jordi offers several other multi-purpose spaces:
  - One 280-m² hall to the east of the arena.
  - Three 30-m² rooms in the Main Hall.
  - One 61.5-m² room to the southwest of the Main Hall (Room U)
  - One 35-m² room to the southwest of the Main Hall (Room T) with drainage system

- **PRESS ROOM**
  The 180-m² press room is equipped with a public address system, TV and video system
Palau Sant Jordi has 4 VIP rooms with private access.

- **CLUB GAUDÍ**, with bar and 225sqm entertainment area. Equipped with sound technology, projector and projection screen. The hall also has two closed-circuit television screens.

- **CLUB ISOZAKI**, with bar and 126 sqm entertainment area. This space is equipped with a closed-circuit television screen.

- **CLUB MONTJUÏC**, with bar and 300 sqm entertainment area. This space is equipped with three closed-circuit television screens.

- **CLUB EL PERIÓDICO**, with bar and 76 sqm. This space is equipped with LED lighting and sound equipment.
The advertising banners of Palau Sant Jordi’s sponsors are displayed in the second level of the roof crown.

These and Palau Sant Jordi’s institutional banner must be respected during all events held at the venue.

The event organizer can display advertising materials where agreed with B:SM.

. PARKING E 4.645sqm (185 lots).

. PARKING F* 1.800sqm (80 lots).

. PARKING G* 2.000sqm (90 lots).

. PARKING H 2.000sqm (150 lots).

. PARKING I* 7.300sqm (326 lots).

. APARKING M 1.600sqm (70 lots).
Direct access to VIP area.

. PARKING Torre Calatrava*
(300 lots).

. PARKING Pedrera del Mussol*
(570 lots)

*These car parks are located on public roads. Permission may be granted to use them on request.
PLAN – 0 FLOOR “GROUND”
PLAN – 4TH FLOOR “PUBLIC ENTRANCE”
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